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**AMENDMENTS TO THE CLAIMS** 

<u>Listing of the claims:</u>

Following is a listing of all claims in the present application, which listing

supersedes all previously presented claims:

1-2. (Canceled)

3. (Original) A wavelet-based encoding method that converts input data,

distributed along a time axis, into data distributed along a frequency axis by using a

frequency range dividing filter and that compresses the data distributed along the

frequency axis by using methods corresponding to individual frequency ranges,

wherein data in a particular frequency range along the frequency axis is

compressed by performing vector quantization using a code book selected from

among a plurality of code books according to activity of the input data.

4. (Original) A wavelet-based encoding method as claimed in claim 3,

wherein, for each of local regions each composed of a plurality of pieces of

the input data, a local average value is calculated by calculating an average value

of those pieces of data, then local activity is calculated by calculating an average

of squares of deviations of those pieces of data from the local average, and then

the activity of the input data is calculated by calculating an average of the local

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activity of all of the local regions.

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5-6. (Canceled)

7. (Original) A wavelet-based encoding device that converts input data,

distributed along a time axis, into data distributed along a frequency axis by using a

frequency range dividing filter and that compresses the data distributed along the

frequency axis by using methods corresponding to individual frequency ranges,

wherein the frequency range dividing filter is composed of a plurality of non-

recursive digital filters and performs a multiplication operation by exploiting a fact

that a value is approximated by adding or subtracting a value obtained by shifting

digits of another value.

8-9. (Canceled)

10. (Original) A wavelet-based encoding device that converts input data,

distributed along a time axis, into data distributed along a frequency axis by using a

frequency range dividing filter and that compresses the data distributed along the

frequency axis by using methods corresponding to individual frequency ranges.

wherein data in a particular frequency range along the frequency axis is

compressed by performing vector quantization using a code book selected from

among a plurality of code books according to activity of the input data.

11. (Original) A wavelet-based encoding device as claimed in claim 10,

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wherein, for each of local regions each composed of a plurality of pieces of

the input data, a local average value is calculated by calculating an average value

of those pieces of data, then local activity is calculated by calculating an average of

squares of deviations of those pieces of data from the local average, and then the

activity of the input data is calculated by calculating an average of the local activity

of all of the local regions.

12-15. (Canceled)

16. (Original) An image processing apparatus for recording or

communicating image data by converting the image data, distributed along a time

axis, into data distributed along a frequency axis by using a frequency range

dividing filter and then compressing the data distributed along the frequency axis

by using methods corresponding to individual frequency ranges,

wherein data in a particular frequency range along the frequency axis is

compressed by performing vector quantization using a code book selected from

among a plurality of code books according to activity of the image data.

17. (Original) An image processing apparatus as claimed in claim 16,

wherein, for each of local regions each composed of a plurality of pieces of

the image data, a local average value is calculated by calculating an average value

of those pieces of data, then local activity is calculated by calculating an average of

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squares of deviations of those pieces of data from the local average, and then the

activity of the image data is calculated by calculating an average of the local

activity of all of the local regions.

18-19. (Canceled)

20. (Original) An image processing apparatus for recording or

communicating image data by converting the image data, distributed along a time

axis, into data distributed along a frequency axis by using a frequency range

dividing filter and then compressing the data distributed along the frequency axis by

using methods corresponding to individual frequency ranges,

wherein data compression is achieved by performing predictive coding for a

low frequency range, performing scalar quantization for a plurality of frequency

ranges between the low frequency range and a high frequency range with step

numbers varied from one frequency range to another, and performing vector

quantization for the high frequency range using one among a plurality of code books

according to activity of the image data.

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